What Is Claimed Is:

1   1.   A system for operating system recovery in a computer
2   system, comprising:
3   a data storage device, comprising;
4   a first partition;
5   a second partition including an image copy of an operating
6   system; and
7   a third partition including bootable files; and
8   a basic input/output system having a system recovery
9   function to activate the third partition and boot the
10   computer system to the third partition if the system
11   recovery function is executed,
12   wherein after the computer system is booted to the third
13   partition, the computer system unpacks the image copy
14   of the operating system in the second partition into
15   an integral copy of operating system and copies the
16   integral copy of operating system to the first
17   partition, deactivate the third partition, activates
18   the first partition, and reboots the computer system
19   to the first partition.

1   2.   The system for operating system recovery as claimed
2   in claim 1 wherein the third partition has a label, and the basic
3   input/output system further checks the label and presents the
4   system recovery function if the label conforms to a predetermined
5   ID.

1   3.   The system for operating system recovery as claimed
2   in claim 1 wherein the basic input/output system further disables

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3   the system recovery function if the computer system is booted
4   to the third partition.

1   4.   The system for operating system recovery as claimed
2   in claim 1 wherein the second partition further includes a batch
3   file to generate an installation file of an application or a patch
4   file of the operating system, and wherein the batch file is
5   executed to generate the installation file of the application
6   or the patch file of the operating system to the first partition
7   after the computer system is booted to the third partition.

1   5.   The system for operating system recovery as claimed
2   in claim 4 wherein the installation file or the patch file are
3   executed to install the application or patch the operating system
4   in the first partition after the computer system is rebooted to
5   the first partition.

1   6.   The system for operating system recovery as claimed
2   in claim 1 wherein the operating system image file and the batch
3   file are hidden in the second partition.

4   7.   A system for operating system recovery in a computer
5   system, comprising:
6   a data storage device, comprising;
7   a first partition;
8   a second partition including a plurality image copies of
9   an operating system and a plurality of batch files;
10   and
11   a third partition including bootable files; and
12   a basic input/output system having a system recovery
13   function to activate the third partition and boot the

14   computer system to the third partition if the recovery

15   function is executed,

16   wherein after the computer system is booted and one of the

17   image copies of the operating system in the second

18   partition is selected, the computer system unpacks

19   the selected image copy of the operating system into

20   an integral copy of the operating system and copies

21   the integral copy of the operating system to the first

22   partition, selects one of the batch files according

23   to the selected image copy of the operating system,

24   executes the selected batch file to generate an

25   installation file of an application or a patch file

26   of the operating system to the first partition,

27   deactivates the third partition, activates the first

28   partition, and reboots the computer system to the

29   first partition.

1   8.   The system for operating system recovery as claimed

2   in claim 7 wherein the third partition has a label, and the basic

3   input/output system further checks the label, and presenting the

4   system recovery function if the label conforms to a predetermined

5   ID.

1   9.   The system for operating system recovery as claimed

2   in claim 7 wherein the basic input/output system further disables

3   the system recovery function if the computer system is booted

4   to the third partition.

1   10. The system for operating system recovery as claimed

2   in claim 7 wherein the installation file or the patch file are

3   executed to install the application or patch the operating system

4   in the first partition after the computer system is rebooted to

5   the first partition.

1   11.   The system for operating system recovery as claimed

2   in claim 7 wherein the basic input/output system further deletes

3   all image copies of the operating system other than the selected

4   image copy of the operating system and all batch files other than

5   the selected batch file from the second partition.

1   12.   The system for operating system recovery as claimed

2   in claim 7 wherein the image copies of the operating system and

3   the batch files are hidden in the second partition.

1   13.   A method of operating system recovery for a computer

2   system, comprising the steps of:

3   providing a data storage device comprising a first

4   partition, a second partition including an image

5   copy of an operating system and a third partition

6   including bootable files;

7   providing a basic input/output system having a system

8   recovery function;

9   if the system recovery function is executed, activating the

10   third partition and booting the computer system

11   thereto; and

12   unpacking the operating system image file from the second

13   partition into an integral copy of the operating

14   system and copying the integral copy of the

15   operating system to the first partition;

16   deactivating the third partition and activating the

17   first partition; and

18   rebooting the computer system to the first partition.

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1   14.   The method of operating system recovery as claimed in
2   claim 13 further comprising checking a label of the third
3   partition, and presenting the system recovery function if the
4   label conforms to a predetermined ID.

1   15.   The method of operating system recovery as claimed in
2   claim 13 further comprising disabling the system recovery
3   function if the computer system is booted to the third partition.

1   16.   The method of operating system recovery as claimed in
2   claim 13 wherein the second partition further includes a batch
3   file to generate an installation file of an application or a patch
4   file of the operating system, and the method further comprising
5   executing the batch file to generate the installation file of
6   the application or the patch file of the operating system to the
7   first partition after the computer system is booted to the third
8   partition.

1   17.   The method of operating system recovery as claimed in
2   claim 16 further comprising executing the installation file or
3   the patch file to install the application or patch the operating
4   system in the first partition after the computer system is
5   rebooted to the first partition.

1   18.   A method of operating system recovery for a computer
2   system, comprising the steps of:
3   providing a data storage device comprising a first
4   partition, a second partition including a plurality
5   of image copies of an operating system and a plurality
6   of batch files and a third partition including
7   bootable files;

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8   providing a basic input/output system having a system
9   recovery function;
10   if the system recovery function is executed, activating the
11   third partition and booting the computer system
12   thereto; and
13   after the computer system is booted and one of the image
14   copies of the operating system in the second
15   partition is selected, unpacking the selected image
16   copy of the operating system into an integral copy
17   of an operating system and copying the integral copy
18   of the operating system to the first partition;
19   selecting one of the batch files according to the
20   selected image copy of the operating system;
21   executing the selected batch file to generate an
22   installation file of an application or a patch
23   file of the operating system to the first
24   partition;
25   deactivating the third partition and activating the
26   first partition; and
27   rebooting the computer system to the first partition.

1   19. The method of operating system recovery as claimed in
2 claim 18 further comprising checking a label of the third
3 partition and presenting the system recovery function if the
4 label conforms to a predetermined ID.

1   20. The method of operating system recovery as claimed in
2 claim 18 further comprising disabling the system recovery
3 function if the computer system is booted to the third partition.

1   21. The method of operating system recovery as claimed in
2   claim 18 further comprising executing the installation file or
3   the patch file to install the application or patch the operating
4   system in the first partition after the computer system is
5   rebooted to the first partition.

1   22. The method of operating system recovery as claimed in
2   claim 18 further comprising deleting all image copies of the
3   operating system other than the selected image copy of the
4   operating system and all batch files other than the selected
5   batch file from the second partition.

1   23. The method of operating system recovery as claimed in
2   claim 18 wherein the image copies of the operating system and
3   the batch files are hidden in the second partition.

1   24. A method of modeling a computer system, comprising the
2   steps of:
3   receiving an order from a customer, designating at least
4   an operating system and an application or patch file
5   for the operating system;
6   partitioning a data storage device of the computer system
7   into a first partition, a second partition and a third
8   partition;
9   storing an image copy of the designated operating system
10   and a batch file in the second partition, in which
11   the batch file generates an installation file of the
12   application and the patch file for the operating
13   system in the first partition;

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14   storing bootable files in the third partition and hide the

15   third partition;

16   providing a system recovery function to a basic

17   input/output system; and

18   providing the computer system, including the basic

19   input/output system having the system recovery

20   function, the image copy of the designated operating

21   system, and the batch file, to the customer.

1   25.   The method as claimed in claim 24 wherein when the

2   system recovery function is executed, further comprising the

3   steps of:

4   activating the third partition and booting the computer

5   system thereto;

6   after the computer system is booted, unpacking the image

7   copy of the operating system in the second partition

8   into an integral copy of the operating system and

9   copying the integral copy of the operating system to

10   the first partition;

11   executing the batch file to generate the installation file

12   of the application or the patch file of the operating

13   system to the first partition;

14   deactivating the third partition and activating the first

15   partition; and

16   rebooting the computer system to the first partition.

1   26.   The method as claimed in claim 25 further comprising

2   executing the installation file or the patch file to install the

3   application or patch the operating system in the first partition

4   after the computer system is rebooted to the first partition.